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动物分类学报

中国叶蜂两新种 (膜翅目, 叶蜂科)

贺应科 魏美才* 张少冰
中南林学院昆虫系统与进化生物学实验室 湖南长沙 410004

摘 要 记述了中国叶蜂两新种: 黑腹近脉叶蜂 *Phymatoceropsis melanogaster* sp. nov. 和宽环钝颊叶蜂 *Aglaostigma laticinctum* sp. nov., 前者与 *Phymatoceropsis stigmaticalis* Wei *et* Nie 近似, 但头部、胸部侧板、胸部腹板黄褐色, 翅痣黑色, 后翅臀室柄微短于 cu-a 脉, 锯腹片 19 刃, 阳茎瓣头叶近横方形, 下腹角显著突出等, 差别显著, 易于鉴别; 后者与 *Aglaostigma bicolor* Wei 和 *Aglaostigma tertium* Zinovjev 近似, 但触角黑色, 腹部背板第 1 和第 3 节、第 7 ~ 10 节、内眶中下部条斑、后眶中上部宽斑白色, 后足股节褐色, 前翅 2Rs 室短于 1Rs, 后胸后侧片后角宽圆, 触角短, 约等长于头胸部之和, 容易与后二种鉴别。新种模式标本保存于中南林学院昆虫模式标本室。

关键词 膜翅目, 叶蜂科, 新种, 中国.
中图分类号 Q969. 542. 6

2004 年在进行湖南衡山叶蜂多样性研究中, 发现叶蜂科 Tenthredinidae 2 新种, 其中 1 种也分布于陕西和江西。新种记述如下。新种模式标本保存于中南林学院昆虫模式标本室。

黑腹近脉叶蜂, 新种 Phymatoceropsis melanogaster sp. nov. (图 1~ 4, 10~ 11)

♀体长 7 mm。头部、前胸和中胸深黄褐色, 小盾片附片、后胸和腹部黑色, 上唇、唇基、上颚大部和足黄白色, 各足胫节末端外侧及各跗分节末端黑褐色; 触角鞭节黑褐色, 1~ 2 节褐色。体毛银色。翅浅烟灰色透明, 翅痣和翅脉黑色。

唇基端缘具浅弧形缺口, 侧角钝方形; 中窝、侧窝深大, 侧窝沟状向下开放; 额区隆起, 高于复眼顶面, 额脊钝; 颚眼距等于单眼直径; OOL∶POL = 5∶2; 复眼下内缘亚平行; 单眼后区稍隆起, 宽长比约为 1. 5; 颊脊明显, 伸达上眶; 单眼中沟、后沟深; 侧沟宽深, 向后分歧。背面观后头等于复眼 1/2 长, 两侧向后稍收敛。触角丝状, 长于腹部, 第 3~ 5 节约等长。体光滑; 中胸小盾片后侧具刻点; 头胸部具强光泽。胸腹侧片明显隆起。前翅 2Rs 室稍短于 1R1 和 1Rs 室之和; 后翅无封闭中室, 臀室柄微短于 cu-a 脉。爪内齿明显短于外齿, 外齿强烈弯曲, 内齿短小。锯鞘侧面观如图 1。锯腹片 19 刃, 刃间段具密毛, 稍下凹, 锯腹片刃间段向基部逐渐变长, 中端部锯刃较基部锯刃稍凸出, 第 9 ~ 10 锯刃如图 2。

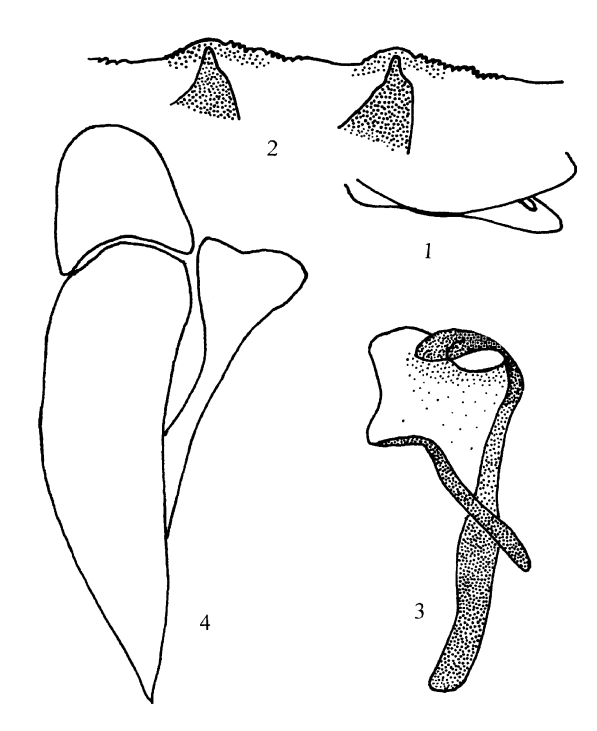


图 1 ~ 4 黑腹近脉叶蜂, 新种 *Phymatoceropsis melanogaster* sp. nov.
1. 锯鞘侧面观 (sheath in lateral view) 2. 锯腹片 9~ 10 锯刃 (the 9th~ 10th serrulae) 3. 雄虫阳茎瓣 (penis valve) 4. 抱器和副阳茎 (harpe and parapenis)

♂体长 5 mm; 体黑色, 腹部第 2~ 3 节背板中部和 2~ 4 节腹板中部黄褐色, 上颚大部、唇基、上唇、前胸背板、翅基片和足黄褐色, 各足跗节中端部暗褐色, 上颚端部黑色, OOL∶POL= 5∶3; 阳茎瓣如图 3, 抱器和副阳茎如图 4; 其他构造类似雌

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* 通讯作者, E-mail: weimeicai@ eyou. com
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虫。

正模 ♀, 湖南衡山, 1 050 m, 2004-04-10, 张少冰; 副模: 966 ♂♂, 140♀♀, 湖南衡山, 1 000 ~ 1 100 m, 2004-04-10~ 11, 张少冰、刘卫星采; 1 ♂, Cheumen (陕西宝鸡南), 1919-05-05, Licent; 1♀, 江西萍乡芦溪, 2004-04-03, 魏美才采; 1 ♂, 湖南石门壶瓶山, 1 300 m, 2003-05-31, 姜洋采; 1 ♀, 湖南石门壶瓶山, 1 200~ 1 600 m, 2004-04-09, 周虎采。

分布: 陕西、湖南、江西。

本种与 *Phymatoceropsis stigmaticalis* Wei *et* Nie 近似, 但头部、胸部侧板、胸部腹板黄褐色, 翅痣黑色, 后翅臀室柄微短于 cu-a 脉, 锯腹片 19 刃, 阳茎瓣头叶近横方形, 下腹角显著突出等, 差别显著, 易于鉴别。

词源: 本种腹部黑色, 与头胸部大部黄褐色对比鲜明, melanogaster 意为腹部黑色, 故以此命名。

宽环钝颊叶蜂, 新种 Aglaostigma laticinctum **sp. nov.** (图 5~ 9, 12~ 13)

♀ 体长 8 mm。体黑色; 上唇、唇基、内眶中下部条斑、后眶中上部宽斑、前胸背板大部、腹部第 1 背板大部、第 2 背板后缘、第 3 和 7~ 10 节背板全部、第 4 背板大部、第 3~ 5 腹板、小盾片中部、后胸后侧片大部黄白色; 翅基片褐色; 足黑色, 前中足股节前侧和端部, 各足胫节和跗节大部褐色, 后足转节黄白色, 跗分节末端暗褐色。体毛银色。翅透明, 翅痣黑褐色, 前缘脉暗褐色, 其余翅脉黑褐色。

唇基近截形, 两侧缘向前稍收敛; 颚眼距等于单眼直径; 复眼内缘向下稍收敛; 中窝深窝状, 侧窝开放, 与额侧沟汇合; 单眼中沟、后沟较细浅; 侧沟宽深, 互相近平行, OOL∶POL= 2∶1; 单眼后区隆起, 具弱中纵沟, 后部不低陷, 具缘脊, 宽长比约为 2; 后眶稍宽于复眼 1/2 宽; 背面观后头约等于复眼 1/2 长, 两侧几乎平行。触角等长于头胸部之和。后胸侧片后角宽圆 (图 5), 小盾片平坦。后足股节伸抵腹部末端, 后足基跗节稍长于其后 3 节之和; 后足胫节内距短于基跗节的 1/2, 爪内齿粗大, 稍长于外齿。前翅 2Rs 稍短于 1Rs, 外下角强烈延伸; cu-a 脉交于 M 室下缘内侧 1/5; 2r 脉交于 2Rs 上缘中部; 后翅臀室具短柄; M 室封闭, 短方形; Rs 开放。头部额区及相邻的内眶内侧、上眶大部、单眼后区全部刻点和刻纹粗糙密集, 光泽微弱, 头部其余部分光滑, 光泽强。前胸背板大部、中胸小盾片大部、小盾片附片、后胸后侧片黄色部分光滑, 光泽强, 胸部背板其余部分具稀疏刻点和微细刻纹, 胸部侧板具粗密刻纹和粗糙刻点。腹部背板具细密刻纹。锯鞘侧面观如图 6; 锯腹片端部第 1~ 3 节、4~ 5 节、6~ 7 节如图 7。

♂体长 7.5 mm; 体色和构造类似雌虫, 但体形较雌虫细, 腹部第 1 背板外侧大部、第 2、4 节绝大部分、第 3 节全部白色; 后翅具完整缘脉; 阳茎瓣如图 8, 抱器和副阳茎如图 9。

正模 ♀, 湖南衡山, 1 100 m, 2004-04-11, 张少冰采; 副模: 1 ♀, 1 ♂, 湖南衡山, 700 ~ 1 000 m, 2004-04-11, 刘卫星、贺应科采。

分布: 湖南。

本种与 *Aglaostigma bicolor* Wei 和 *Aglaostigma tertium* Zinovjev 近似, 但触角黑色, 腹部背板第 1 和第 3 节、第 7~ 10 节、内眶中下部条斑、后眶中上部宽斑白色, 后足股节褐色, 前翅 2Rs 室短于 1Rs, 后胸侧片后角宽圆, 触角短, 约等长于头胸部之和等特征可与二种区别。

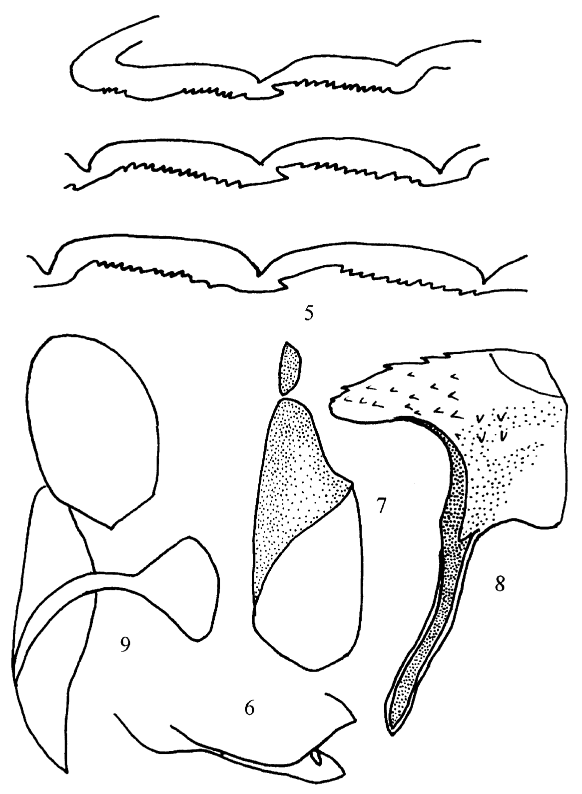


图 5~ 9 宽环钝颊叶蜂, 新种 *Aglaostigma laticinctum* sp. nov.
5. 后胸后侧片 (metepimeron) 6. 锯鞘侧面观 (sheath in lateral view) 7. 端部锯刃 (apical serrulae) 8. 阳茎瓣 (penis valve) 9. 抱器和副阳茎 (harpe and parapenis)

词源: latus, 宽大的; cinctus, 腰带, 环。本种腹部底色黑色, 中部具较宽的白色环斑, 因此得名。

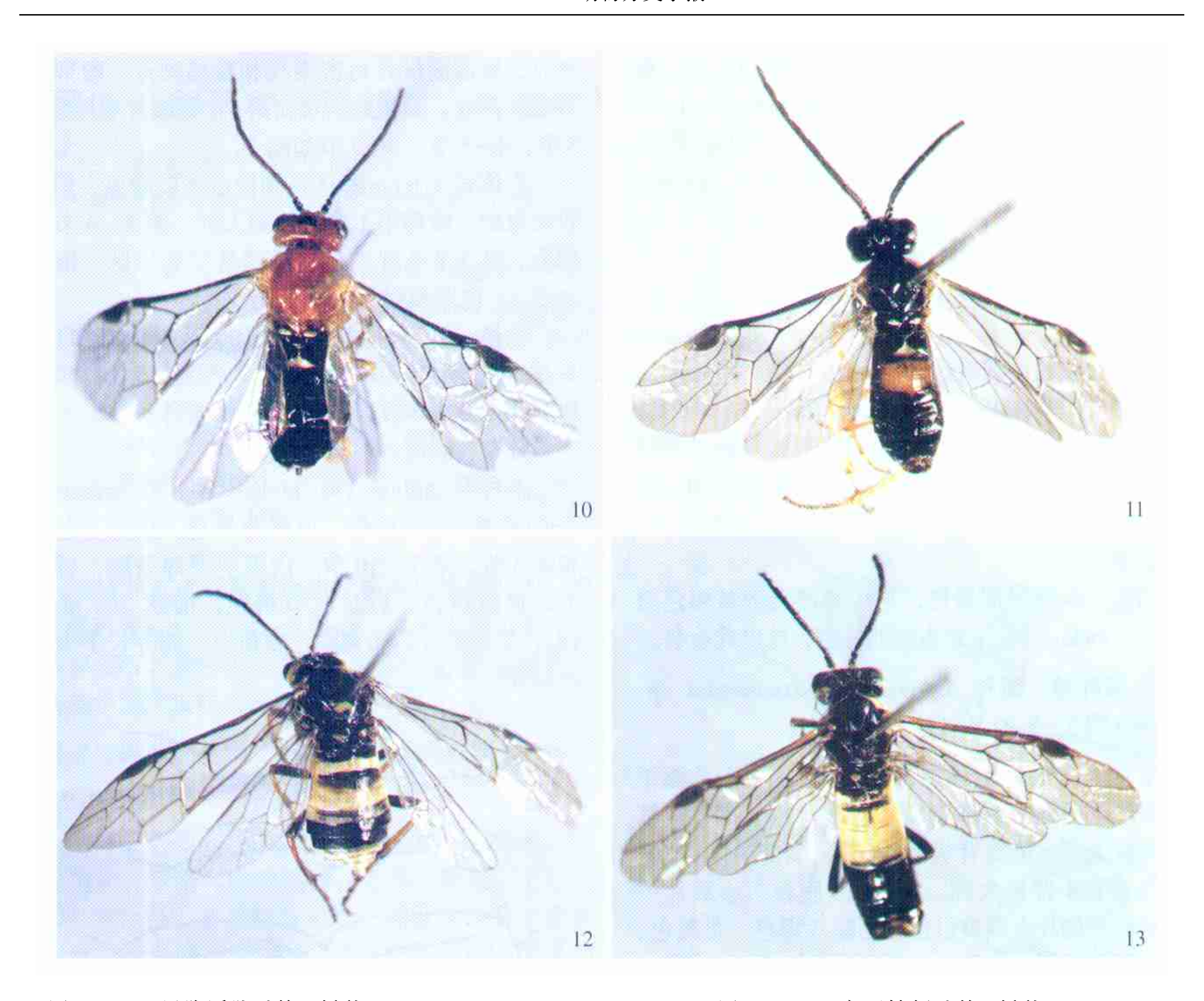


图10~11 黑腹近脉叶蜂, 新种 *Phymatoceropsis melanogaster* sp. nov. 图 12~13 宽环钝颊叶蜂, 新种 *Aglaostigma laticinctum* sp. nov. 10, 12. ♀ 11, 13. ♂

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TWO NEW SPECIES OF TENTHREDINIDAE FROM CHINA (HYMENOPTERA, TENTHREDINIDAE)

HE Ying-Ke, WEI Mei-Cai, ZHANG Shao-Bing
Laboratory of Insect Systematics and Evolutionary Biology, Central South Forestry University, Changsha 410004, *China*

Abstract Two new species of Tenthredinidae are described and illustrated from China. Type specimens are deposited in the Insect Collection of Central South Forestry University, Changsha, China.

Phymatoceropsis melanogaster **sp. nov.** (Figs. 1-4, 10-11)

♀. Body length 7 mm; head, prothorax and mesothorax yellow brown; posttergite, metathorax and abdomen black; leg yellow brown, apex of each tibia and of each tarsomere black yellow, flagellum black, pterostigma black; clypeus slightly incised, lateral corner obtusely square; malar space as long as diameter of an ocellus; OOL∶POL= 5∶2; postocellar area elevated, 1.5 times broader than long; antenna longer than abdomen, 3rd segment as long as 5th segment; cell 2Rs in fore wing slightly shorter than 1R1 and 1 Rs together; petiole of hind anal cell slightly shorter than vein cu-a; valviceps short and broad with ventral corner distinctly protruding, lancet with 19 serrulae.

♂. Body length 8 mm; similar to female.

Holotype ♀, Mt. Heng (1 050 m), Hunan, China, 10 Apr. 2004, ZHANG Shao-Bing. Paratypes: 966♀♀, 140 ♂♂, Mt. Heng (1 000-1 100 m), Hunan, 10-11 Apr. 2004, ZHANG Shao-Bing, LIU Wei-Xing; 1 ♂, Cheumen [Baoji, Shaanxi], China, 6 May 1919, Licent; 1♀, Luxi, Pingxiang, Jiangxi, China, 3 Apr. 2004, WEI Mei-Cai; 1 ♂, Mt. Huping (1 300 m), Shimen, Hunan, China, 3 May 2003, Jiang Yang; 1♀, Mt. Huping (1 200-1 600 m), Shimen, Hunan, China, 9 Apr. 2004, ZHOU Hu (CSFU).

This new species is similar to *P. stigmaticalis* Wei *et* Nie, but can be easily recognized in head, mesopleuron and mesosternum yellow white, pterostigma black, petiole of hind anal cell slightly shorter than vein cu-a, valviceps short and broad with ventral corner distinctly protruding, and lancet with 19 serrulae.

Etymology. The "melanogaster" refers to the black abdomen contrasting to the yellow brown head and thorax.

Aglaostigma laticinctum **sp. nov.** (Figs. 5-9, 12-13)

♀. Body length 8 mm; body and antenna black; labrum, clypeus, a narrow stripe at inner orbit, a broad stripe at upper hind orbit, most of pronotum, most of 1st and 4th tergites, posterior margin of 2nd tergite, 3rd and 7th-10th tergites entirely, 3rd to 5th sternites, middle of mesocutellum, most of metepimeron yellow white; legs black; front side and apex of fore and middle femora, each tibia and tarsus largely brown; hind trochanter yellow white, apex of each tarsomere dark brown; peterostigma black brown; vein C dark brown. Malar space as long as diameter of an ocellus; OOL∶POL= 2∶1; postocellar area elevated, 2 times broader than long; antenna as long as head and thorax together; posterior angle of metepimeron broad and round; cell 2Rs in fore wing slightly shorter than 1Rs; vein cu-a jioning cell 1M at basal 1/5, vein 2r joining cell 2Rs at middle.

♂. Body length 7.5 mm; similar to female but slender, hind wing with marginal vein complete.

Holotype ♀, Mt. Heng (1 100 m), Hunan, China, 10 Apr. 2004, ZHANG Shao-Bing. Paratypes: 1♀, 1 ♂, Mt. Heng (700-1 000 m), Hunan, China, 10-11 Apr. 2004, LIU Wei-Xing, HE Ying-Ke (CSFU).

This new species is similar to *A. bicolor* Wei and *A. tertium* Zinovjev, but differs from them in antenna black, the abdominal tergites 1, 3, 7-9 yellow white, inner orbit with a narrow white stripe and hind orbit with a broad white stripe, hind femur brown, cell 2Rs in front wing shorter than 1Rs, the posterior angle of metepimeron broad and round, antenna as long as head and thorax together.

Etymology. The "laticinctum" means a broad ring referring to the abdomen of the species largely black with a broad white ring.

Key words Hymenoptera, Tenthredinidae, *Phymatoceropsis*, *Aglaostigma*, new species, China.